Part 6

Section N

COMPUTER-AIDED ACQUISITION AND LOGISTICS SUPPORT

References:

a. Deputy Secretary of Defense Memorandum, "Computer-Aided Acquisition and Logistics Support," August 5, 1988 (canceled)
b. MIL-STD-1840, " Automated Interchange of Technical Information"
c. MIL-STD-1556, "Government-Industry Data Exchange Program"
d. MIL-HDBK-59, "Computer-Aided Acquisition and Logistics Support Program Implementation Guide"
e. OPNAVINST 4120.5, "Computer Aided Acquisition and LogisticsSupport," 1 Jul 92 (DoN)

1. PURPOSE

a. This section supersedes Deputy Secretary of Defense Memorandum "Computer-Aided Acquisition and Logistics Support" (reference (a)).

b. These policies and procedures establish the basis for making greater use of computer aided information technologies that enable process improvements in design, manufacturing, and life-cycle support of defense systems and equipment.

2. POLICIES

In general, preference shall be given to contractor information services and online access instead of data deliverables. Where data delivery is required, preference shall be given to delivery in machine-readable digital form rather than paper wherever feasible.

3. PROCEDURES

a. Proposals. Acquisition plans and solicitations will require specific proposals, including costs and schedule, for:

1) Integration of contractor technical information systems and processes for engineering, manufacturing, and logistic support;

2) Authorized Government access to contractor data bases; and

3) Delivery of technical information in digital form using computer aided acquisition and logistics support standards contained in MIL-STD-1840 (reference (b)).

b. Shared Models and Data Bases

1) Contractors should be required to develop integrated, shared data base environments consisting of analysis tools, consistent integrated databases, and engineering design, manufacturing and logistics processes designed to utilize digital information.

2. Contractors should use computer aided design, engineering, and manufacturing (CAD/CAE/CAM) methods to support design integration through shared product and process models and data bases.

c. Management Structure. A comprehensive technical information management architecture to include supporting data dictionary and directory services should be developed to:

1) Manage configuration of the entire technical information and planning data bases;

2) Integrate planning information into its respective technical information source data base;

3) Provide traceability and auditability of technical information relating to the weapon system, its components, and any changes affecting them; and

4) Trace configuration changes from design to logistics products and vice-versa.

5) Exploit opportunities to obtain cost savings by retrofitting digital information technology into deployed weapon systems.

d. Information Services. Contractor integrated technical information services should be developed to include procedures, processes, specifications, and software applications for the generation, protection, integration, storage, exchange, and online access of digital data by the Government and associated contractors.

e. Government-Industry Data Exchange Program (GIDEP) The Government-Industry Data Exchange Program is the DoD program that provides, without charge, an unclassified data base of parts problems, reliability, diminishing manufacturing resources, and metrology information.

1) The Government-Industry Data Exchange Program is described in MIL-STD-1556 (reference (c)).

2) The Government-Industry Data Exchange Program should be used by both program offices and contractors.

f. Access and Delivery Alternatives. MIL-HDBK-59 (reference (d)) provides technical guidance for selecting among information access and delivery alternatives. Final decisions on implementation of contractor proposals will be based on the productivity and quality improvements expected in contractor team operations (prime, subcontractors, suppliers) and Government operations.

1) Technical data that are required as deliverables, including technical manuals, engineering data, and logistics support analysis data, should be required to be prepared and delivered in digital form unless clear and convincing analysis shows this not to be cost-effective when assessed across the life cycle.

2) The computer aided acquisition and logistics support standards in MIL-STD-1840 (reference (b)) will be applied for digital data deliverables.

g. Additional Guidance. Reference (e) provides additional implementation guidance. (DoN)

4. RESPONSIBILITIES AND POINTS-OF-CONTACT

The matrix below identifies the offices to be contacted for additional information on this section. The full titles of these offices may be found in Part 14 of this Instruction.

DoD Component	Points-of-Contact	
	General	Specific
OSD	ASD (P&L)	Dir, CALS
Dept. of Army	ASA (IL&E)	SAILE-LOG
Dept. of Navy	ASN (RDA)	CNO (N4) HQMC/I&L
Dept. of Air Force	SAF (AQK)	AF/LE-I

a. The Commander, Naval Sea Systems Command, is responsible for coordinating, programming, and executing the Government-Industry Data Exchange Program (GIDEP) for DoN.